
VOL. XIII.

MARCH, 1924

No. 1

BULLETIN

OF THE

Medical Department of the University of Georgia

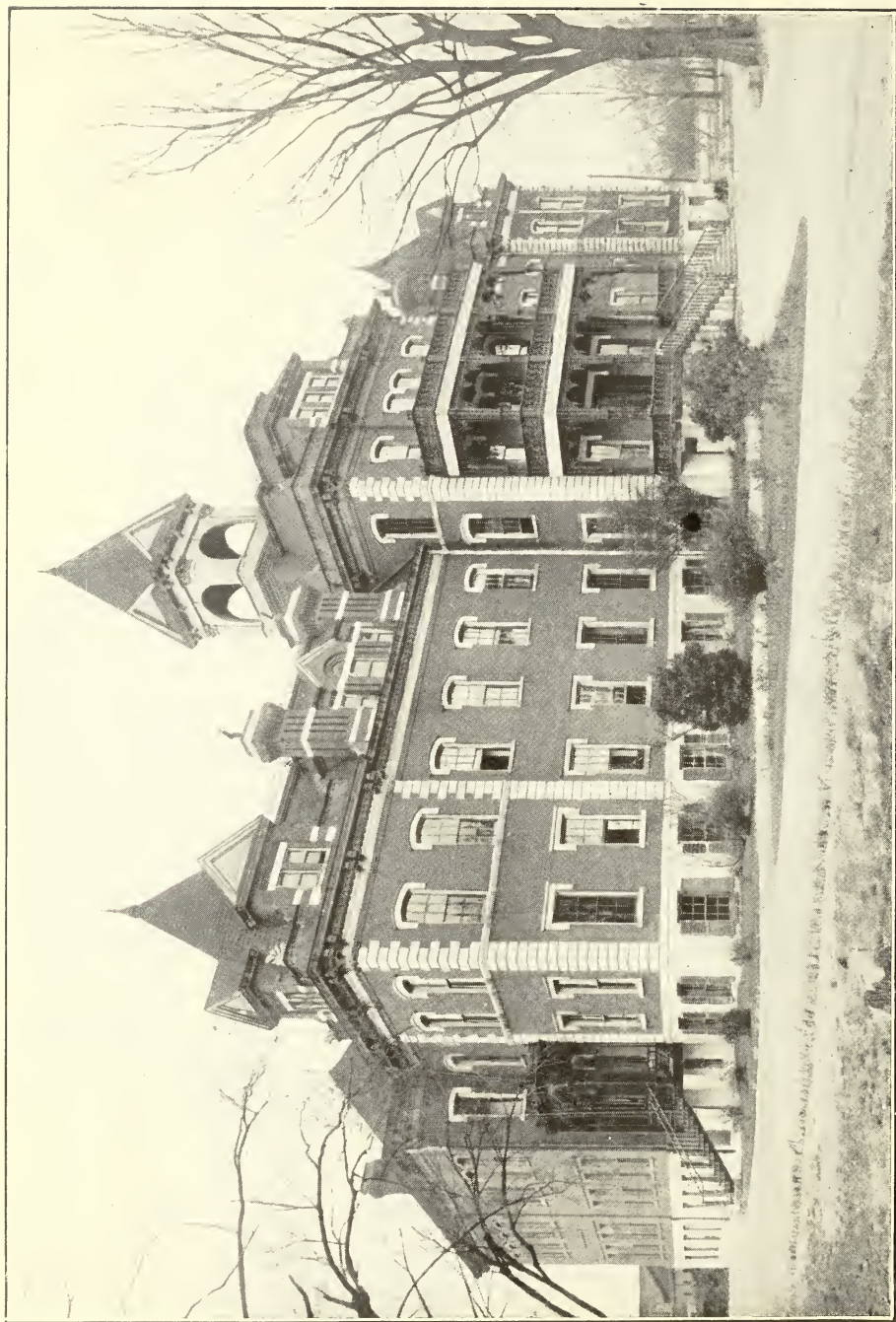
AUGUSTA, GEORGIA



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1924-1925



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COLLEGE BUILDING

VOL. XIII.

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Medical Department of the
University of Georgia
AUGUSTA, GEORGIA

IN MEMORIAM

The Medical Department has lost, during the past two years, two of the oldest and most loved members of its faculty, Dr. William Henry Doughty, Jr., and Dr. Thomas Russell Wright.

Dr. Doughty, after many years as Professor of Surgery, took over the duties of the Dean's office in 1910, and continued as Dean up to the time of his death, June 22nd, 1923. He gave unsparingly of his time and strength to build up the school, and much that has been accomplished during the last fifteen years has been due to his able leadership. In his death, Medical Education and Public Health work in the South have lost one of their clearest thinkers and most constructive workers.

Dr. Wright died May 25th, 1923. He had served the school first as Professor of Anatomy and later as Professor of Surgery for 47 years. From 1894 to 1897 he acted as Dean. He took a prominent part in the two reorganizations of the Department in 1890 and in 1910-1912, and was active in the development of the new University Hospital. He was known and respected by a wide circle of friends, as a skillful surgeon and a public spirited citizen. He had served on numerous public commissions, and his loss will be felt throughout the state.

By the many graduates who knew them as kind and inspiring teachers, and by the members of the faculty, who knew them as lovable and devoted co-workers, they will be keenly missed.

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CALENDAR

1924

September 12th and 13th, Friday and Saturday-----
-----Entrance Examinations and Re-examinations
September 15th, Monday-----Registration
September 16th, Tuesday-----Instruction Begins
November 27th, 28th, and 29th, Thursday, Friday and Saturday,
Thanksgiving -----Holidays
December 6th, Saturday,-----First Trimester Ends
December 20th, Saturday, 1:00 P. M.----Christmas Recess Begins

1925

January 5th, Monday-----Instruction Resumed
January 19th, Monday, Lee's Birthday-----Holiday
February 23rd, Monday, Washington's Birthday-----Holiday
March 7th, Saturday-----Second Trimester Ends
May 25th to 30th, inclusive-----Examination Week
June 1st-----Commencement

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ANNOUNCEMENT FOR SESSION 1924-1925

The ninety-sixth annual session of the Medical Department of the University of Georgia will begin September 15th, 1924 and end June 1st, 1925.

HISTORICAL NOTE

The Medical Department of the University of Georgia was chartered in 1828 under the title of the Georgia Medical Academy. In 1829 it became the Medical College of Georgia, and continued under this name until 1873 when it became affiliated with the State University as its Medical Department. In 1911, by an act of the legislature, it became legally the Medical Department of the University of Georgia, and passed into the control of the University, its affairs being administered by a Board of Directors appointed in part by the Governor of the State and in part from the University Board by its President.

MEDICAL COLLEGE BUILDING

The Medical College is housed in a four-story brick structure, situated on the College campus covering about forty-five acres. It is near the geographical center, and about one mile from the business center, of Augusta, and is easily accessible by trolley from all parts of the city.

The first floor of the building is used for the out-patient department. It contains thirty rooms which provide for the various clinics,

offices, laboratories, and waiting rooms. On the second floor are located the administration offices, the library, and the departments of chemistry, hygiene, and surgery. On the third and fourth floors are the departments of anatomy, pathology and bacteriology, and physiology and pharmacology, and an animal room containing fifty individual cement animal cages.

HOSPITALS

The City of Augusta in 1914 built upon the College grounds and in immediate proximity to the College building, a hospital plant especially designed as a teaching hospital for the Medical School, and known as the University Hospital. The buildings, equipped, cost nearly a million dollars. They are of modern fire proof construction, and are furnished throughout with standard appliances of the best material and design. Of the total of 250 beds, approximately 175 are available without restriction for teaching purposes.

The University Hospital is maintained by the City of Augusta, but the medical and surgical control is vested entirely in the Medical Department of the University of Georgia. The visiting staff is appointed by the Board of Directors of the Medical School from members of the teaching staff, thus assuring a proper use of the clinical material of the hospital for purposes of teaching.

The Wilhenford Hospital for children, containing fifty beds, and located on the College campus, is under the medical and surgical care of the teaching staff in Pediatrics, and is used for clinical teaching without restriction.

The U. S. V. B. Psychiatric Hospital No. 62, located at Augusta, through the courtesy of the Veterans' Bureau, affords clinical material for the course in Neuro-Psychiatry. This course is taught by the members of the hospital staff, who give the didactic work at the college and the clinical work at the hospital.

The Georgia State School for Mentally Defective Children, which is operated by the State Board of Health, is located about ten miles from Augusta, and provides for occasional demonstrations in this field of study.

CLINICAL MATERIAL

Augusta being preeminently a cotton manufacturing city has a very large negro and "Mill" population, probably more than 35,000, from which the school draws its clinical material, and in relation to which it is very conveniently located. There is, therefore, an abundance of material for clinical teaching in the hospital and out-patient department, at all times.

The school also has the control and care of the bed-sick poor in their homes, which provides opportunity for a selection of cases for

admission to the hospital, and also makes it possible to offer, as it is hoped can be done at an early date, a fifth year of purely clinical instruction, much or most of which can be given in the homes of the people, and therefore under conditions that more nearly parallel those met with in actual practice.

This school directs the hygiene and sanitary activities of the city and county, and uses them for field work in training its students in this important branch. This also gives full opportunity for properly training prospective county health officers.

AUTOPSIES

The city morgue, with specially designed autopsy and cold storage rooms, is situated adjacent to the University Hospital. Autopsies are conducted by the staff in pathology on material supplied from the wards of the hospital, from the out-patient department, and by the coroner's physician. Students are required to attend the autopsies, particularly those on patients who have died in the hospital, and participate in the work and in the discussions.

LIBRARY

The Library is located in the south wing of the main college building, in quarters that afford ample room, good light and retirement. It is open each day from 9 A. M. to 5 P. M. except Saturdays when it closes at noon. During the school session it is open five evenings a week.

There are in the Library about 5,500 bound volumes and 600 pamphlets. The list of books comprises many standard reference works in medicine and surgery, and the fundamental sciences, as well as many of the latest text books and monographs. There are ninety current journals in English, French and German, in the fields of Chemistry, Anatomy, Physiology, Bacteriology, Pathology, Medicine, and Surgery. The files of many of these journals are complete to date. The Library is maintained partly by appropriation from the general funds, and partly by the income from the William J. Young Library Endowment. The income from this endowment amounts to about \$1,500 a year, and is used for books and periodicals only.

PHOTOGRAPHY

Many of the illustrative aids to teaching are prepared by a trained and salaried photographer. Charts and photographs of specimens, lantern slides and photomicrographs are made particularly for the Departments of Anatomy and Pathology. Also photographs of selected patients in the out-patient department and hospital are taken upon request of the attending staff. There is a liberal supply of the best optical apparatus and photographic material.

REQUIREMENTS FOR ADMISSION

Each student before admission must submit proper evidence of having had a suitable training both in high school work and in work of collegiate grade.

HIGH SCHOOL REQUIREMENTS. The equivalent of a four year course in an accredited secondary school, covering at least fifteen units of work, is required. Eight of the fifteen units must be apportioned in Group I to IV as follows:

Group I, English-----	3
Group II, Foreign Language-----	2*
Group III, Mathematics (Algebra 1, Plane Geometry 1)-----	2
Group IV, History-----	1
Group V, Science-----	1

Three additional units must be taken from the five groups.

The remaining four units may be distributed among any of the subjects counted by the high school toward its diploma.

A unit is the credit value of at least thirty-six weeks' work of four or five recitation periods per week, each period to be of not less than forty minutes duration.

PRE-MEDICAL COLLEGE REQUIREMENTS. In addition to the high school work specified above, each candidates for admission must have successfully completed at least sixty semester hours of collegiate work, extending through two years of thirty-two weeks each in some approved college.

A semester hour is the credit value of sixteen weeks' work consisting of one lecture or recital period per week, each period to be not less than fifty minutes net. At least two hours of laboratory work is to be considered the equivalent of one lecture or recitation period.

A description of the subjects required in the two years premedical college course is given below. The remainder of the course may be selected from the general curriculum of the college, but the work of the two year premedical course must be such as to make it acceptable as the equivalent of the first two years of the course leading to the degree of Bachelor of Science.

SUBJECTS REQUIRED IN THE TWO YEAR PRE-MEDICAL COURSE

CHEMISTRY. A total of twelve semester hours is required. Eight semester hours must be in general inorganic chemistry, half of which must represent laboratory work. Qualitative analysis may be counted as general inorganic chemistry. The remaining four semester hours

*Both units of Foreign Languages must be offered in the same language.

must be in organic chemistry, including at least two semester hours of laboratory work.

PHYSICS. A total of eight semester hours is required, of which at least two must be laboratory work. It is strongly urged that this course be preceded by a course in trigonometry.

BIOLOGY. A total of eight semester hours is required, four of which must be laboratory work. The requirement may be satisfied by a course of eight semester hours in either general biology or zoölogy, or by courses of four semester hours each in zoölogy and botany, but not by botany alone.

ENGLISH LITERATURE AND COMPOSITION. A total of six semester hours is required. The usual introductory college course of six semester hours or its equivalent meets this requirement.

NON-SCIENCE SUBJECTS. Of the sixty semester hours required as a measure of the two years of college work, at least twelve, exclusive of the six semester hours of English, should be in other than the physical, chemical, or biological sciences. A reading knowledge of French and German is extremely useful.

The above represents only the minimum requirements. Prospective Medical Students are strongly advised, wherever possible, to take a third collegiate year.

APPLICATION FOR ADMISSION

Students desiring admission will be furnished with proper blanks, together with instructions for filling them out. All credentials are acted upon by the Professor of Secondary Education in the University of Georgia at Athens, Georgia, in conformity with the State law. Applications when properly filled out should be returned to the medical school, accompanied by the statutory fee of two dollars. *Prospective students should file their credentials before July 1.* Failure to do so may result in exclusion owing to the surplus of applicants over the capacity of the school. No student will be admitted with any conditions, and if such exist at the time of application in June, they must be removed before the opening of the medical school in the fall, through attendance at some summer school.

Women are admitted on the same basis as men.

All communications should be addressed to the Medical Department, University of Georgia, Augusta, Georgia.

ADMISSION TO ADVANCED STANDING

A student desiring admission to advanced standing is required to present satisfactory evidence that his preliminary and medical education is equivalent to that required of the class to which admission is sought. All high school and college credentials are passed upon in the same manner as those of the applicant for admission to the first year course. Students from accredited medical schools whose record

of work is satisfactory may be admitted to advanced standing without examination, though the right of requiring examination is not waived. Students will not be received into any class unless there are vacancies.

REQUIREMENTS FOR GRADUATION

A candidate for the degree of Doctor of Medicine from the University of Georgia must be at least twenty-one years of age, and of good moral character. He must be free from indebtedness to the University. He must have successfully completed four years of medical study in accredited institutions, the last year of which shall have been in this school.

COMBINED DEGREES

The University of Georgia confers the degree of Bachelor of Science in Medicine upon those students who successfully complete a four-year course, three years of which are given at Athens, in the College of Science and Engineering, and the last year of which, given at Augusta, is identical with the first year of the course leading to the degree of Doctor of Medicine. The requirements for admission in this course are given fully in the general catalogue of the University. Those who expect to take this course should address, the Registrar, University of Georgia, Athens, Ga.

SPECIAL STUDENTS

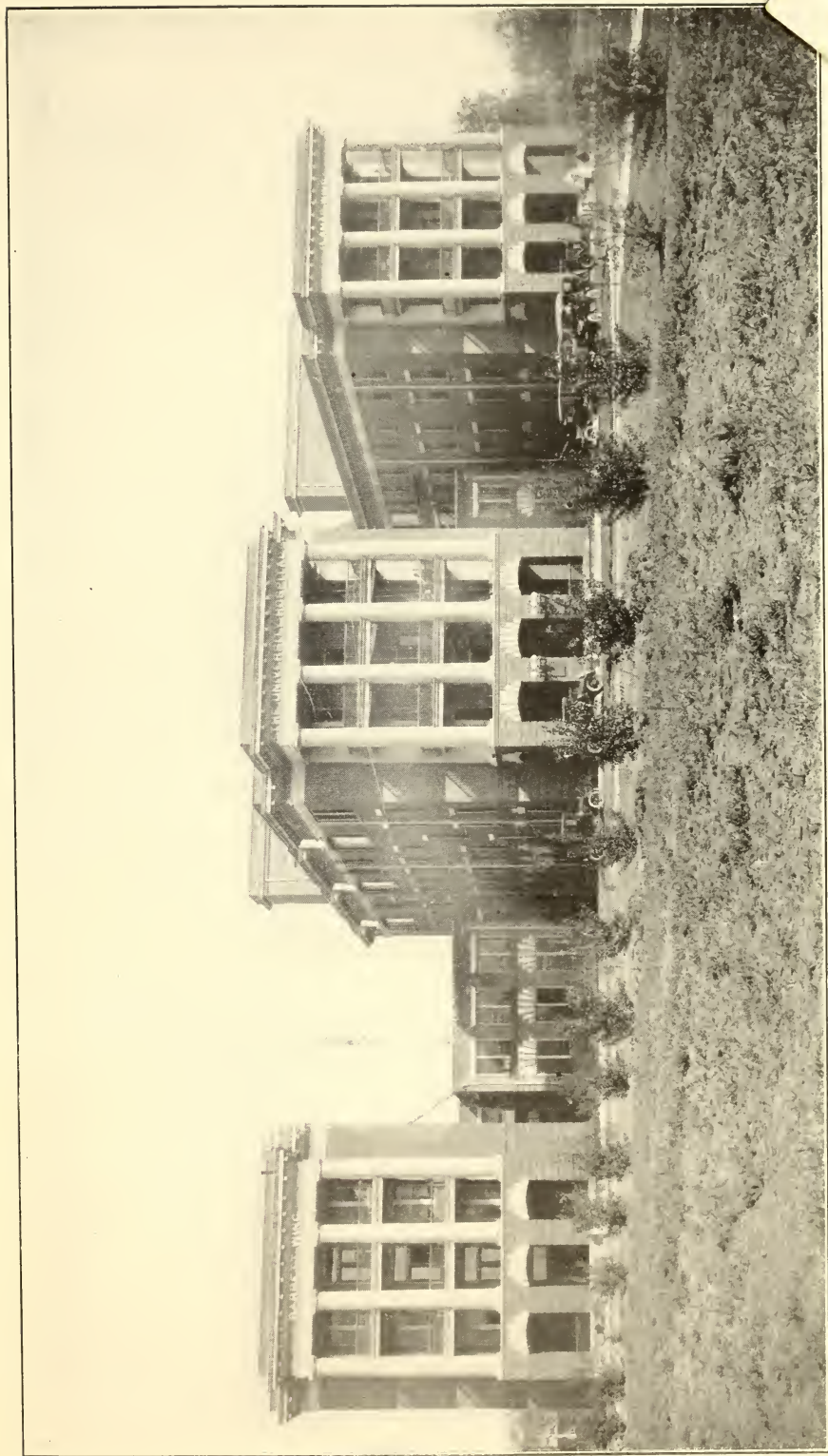
Students desiring to take certain courses only will be registered as special students, upon making satisfactory arrangements with the head of the department in which the work is to be done, and upon payment of the special fees. The work so done will not count towards the degree of Doctor of Medicine.

POST GRADUATE WORK

Graduates in medicine who desire to do post graduate work can make the necessary arrangements for it with the head of the department in which they wish to work. No fees will be charged residents of the State of Georgia or alumni of this school, except a breakage fee of \$10.00, which, after deduction for any breakage, will be returned.

EXAMINATION AND PROMOTION

Final examinations are held after the completion of the various courses, or during the week preceding commencement. A grade of 75 per cent is necessary to secure credit for any course. The work of each course is so condensed that no part of it can be omitted without serious loss. Consequently no "cuts" are permitted, except for illness or other unavoidable cause, and all work so lost must be made up. In no case will credit be given in a major course (one occupying 100 hours or more) if absences have exceeded 20 per cent of the class



NEW UNIVERSITY HOSPITAL, AUGUSTA, GA.

exercises. In a minor course the requirement of 80 per cent attendance may be waived in cases of illness, upon recommendation of the instructor and the committee on college affairs. In case of failure in a major course the course must be repeated. In a minor course a student who has failed may be permitted to take a re-examination if, in the opinion of the committee on examinations, circumstances seem to justify it. Such examinations are held the week preceding the opening of the session in September.

TUITION AND FEES

In conformity with the regulations governing other branches of the University of Georgia, the Medical Department does not require tuition fees of residents of the State. For such residents the laboratory and other fees will be as follows:

Matriculation fee, \$5.00, paid but once at the time of first registration.

Laboratory fees, \$90.00 each year.

The fees for non-residents will be \$300.00. This sum includes tuition, laboratory fees, and final examination fee.

Of each student a deposit of \$10.00 is required to cover possible injury to the property of the University. The unused portion of this deposit is returned at the end of the college year.

LATE REGISTRATION FEE. A fee of \$5.00 is charged students who register later than the regular registration day.

STUDENTS' AID

The Charles McDonald Brown Scholarship fund was established at the University of Georgia in 1882 by the late Hon. Joseph E. Brown, ex-Governor of Georgia.

The interest on this fund is lent to worthy young men who would not otherwise be able to acquire a university education, on condition that they refund the money as soon as they can, after providing for their own livelihood.

By the rules and regulations for the administration of this fund any student in the Medical Department is eligible to participate in its benefit.

Application must be made to the Chancellor of the University at Athens prior to the first of June each year. Examinations for scholarships are conducted in May, and appointments are made by the Board of Trustees in June.

For further information address the Chancellor, University of Georgia, Athens, Ga.

REGISTRATION

Each student before beginning any class work is required to register at the office. Before registering for the first time each student is re-

quired to file a statement, signed by two physicians in good standing and by the secretary of the College from which he comes, testifying to his good moral character. All credentials pertaining to entrance requirements must have been approved. Students will not be permitted to register later than one week after the opening of the session.

STUDENT DISCIPLINE

With the approval and support of the faculty the students of this school regulate their conduct according to an honor system administered by a board elected from the student body by the students themselves. Each student upon entering is required to pledge himself in writing to uphold the system and conform systematically to its requirements.

MEDICAL SUPERVISION OF STUDENTS

During the first month of the college year, each student must file a record of a physical examination made by a member of the teaching staff, who shall be designated by the college.

STUDENT EXPENSES

In addition to the fees payable to the college, from \$50.00 to \$100.00 a year is required to cover the cost of text-books and instruments used by the student.

Suitable board and room may be obtained in the vicinity of the college for \$8.00 to \$10.00 a week.

Each student is required to have a microscope of his own, payment for which in installments can be arranged through the office.

GENERAL PLAN OF INSTRUCTION

The medical course extends through four years, of thirty-four weeks each, from the middle of September to about the first of June. Each year is divided into three terms, or trimesters of approximately equal duration.

The work of the first two years is devoted almost entirely to a study of the fundamental sciences of chemistry, anatomy, physiology, pharmacology, pathology and bacteriology. The instruction is largely practical and most of the time is spent by the student in the laboratory, working under competent supervision. This laboratory work is supplemented by class room courses and conferences, which are designed to explain the fundamental principles of the subjects studied and emphasize their relation to the study of medicine.

In the third trimester of the second year clinical work is introduced by courses in physical diagnosis and minor surgery.

During the third year the student, beside attending lectures and demonstrations, spends a considerable part of his time in the medical and surgical clinics. Here, under the supervision of some one of the

attending staff, he examines patients, prepares case records, makes diagnoses, and outlines the indicated treatments.

In the fourth year, instruction is given almost wholly in the wards of the hospital and in the clinics.

Courses in public health are given in each of the four years.

A reorganization of the curriculum is being made in order to provide a better balanced course, and to leave time for electives. During the session 1922-'23, the major part of second year anatomy was shifted to the first year, and the excessive time devoted to Anatomy and Chemistry reduced. During the present session, Neurology is being moved from the second to the first year, and Special Pathology from the third to the second year. These adjustments give a substantial amount of elective time during the third term of the second year, and will permit the scheduling of electives during the third year. Students will be required to elect a certain minimum, and better students will be encouraged to use the elective time for investigation.

A detailed description of the work in the various years is given under the separate departmental announcements and the arrangement of hours is shown in the schedule.

DEPARTMENTS

ANATOMY

DR. ELIOT R. CLARK, Professor.
MR. G. LOMBARD KELLY, Assistant Professor.
MR. O. C. JACKSON, Instructor.
DR. JOHN C. WRIGHT, Instructor.
MISS LOREE FLORENCE, Assistant.
MR. J. C. SANDISON, Assistant.
MR. F. C. STORY, Assistant and Technician.

The facilities of the department include a well-lighted dissecting-room, with supply-room, an embalming and storage room for cadavers, laboratory for microscopic anatomy with adjacent preparation room, lecture room with projection apparatus, photomicrographic room with suitable equipment, three private laboratories for staff members, and a research laboratory large enough for six investigators. Material for dissection is plentiful. The laboratories are suitably equipped with apparatus and accessories necessary for teaching and investigation. For embryology, histology and neurology there are satisfactory sets of microscopic slides which are loaned to students.

The required courses given by the department are designed (a) to enable the student to secure a comprehensive knowledge of the anatomy of the human body, gross and microscopic, its mode of development, and the factors, as far as they are known, which govern the healthy growth and maintenance of its parts; (b) to develop in the student independence and initiative and the ability to make accurate, first-hand observations and records. The courses in gross and microscopic anatomy are closely correlated. Elective courses are offered for students who desire to extend their knowledge of anatomy beyond that acquired in the required courses, and for those wishing to undertake serious investigation of anatomical problems.

1. EMBRYOLOGY. This course covers fertilization, cell division, the formation of the germ layers, histogenesis and organogenesis. Use is made of living and injected chick embryos, of pig embryos for dissection, and of serial sections of rat, pig and human embryos. First year, first trimester, 7 hours a week, 77 hours. *Mr. Kelly.*

2. GROSS ANATOMY. The basis of this course consists of the dissection, by each student, of a lateral half of the human body. Personal conferences are held daily with each student, and class conferences, at intervals, in which fundamental principles are discussed. The study of the skeleton parallels the dissection of the soft parts, a box containing the various bones being issued to each student. First year, first

and second trimester, 20 hours a week; and second year, second trimester, 10 hours a week, 580 hours. *Professor Clark, Mr. Sandison, and Miss Florence.*

3. HISTOLOGY. The study of the elementary tissues is followed by that of the organs, including the special sense organs. This is largely a laboratory course and consists of the microscopic study of fresh tissue, frozen sections, and material from the dissecting room, in addition to the usual prepared sections. The instruction is chiefly individual, supplement by class conferences. First year, first trimester, 8 hours a week, and second trimester, 6 hours a week. 160 hours. *Professor Clark, Mr. Jackson, and Mr. Story.*

4. NEUROLOGY. This course consists of the study of the gross and microscopic anatomy of the central nervous system, and of the chief fiber tracts. Second year, first trimester, 6 hours a week, 66 hours. (Also, during the present session, first year, second trimester, in part of the time allotted to gross and microscopic anatomy. Hereafter in first year.) *Mr. Jackson and Miss Florence.*

5. TOPOGRAPHICAL ANATOMY. An opportunity is afforded to a limited number of students to study the exact topographical relations of the organs, either from cross-sections or by making special dissections. *Elective.* Third trimester, 10 hours a week. *Professor Clark and Mr. Sandison.*

6. APPLIED ANATOMY. Third year, first trimester, 2 hours a week, 22 hours. *Dr. Wright.*

7. ADVANCED ANATOMY AND INVESTIGATION. To qualified students and graduates informal advanced courses in the different branches of anatomy are offered. Encouragement and opportunity are given to students and others who have sufficient preparation to undertake the investigation of original problems in anatomy. A reading knowledge of French and German is highly desirable. *Professor Clark.*

CHEMISTRY

DR. CARLTON H. MARYOTT, Professor.

MR. H. B. JENKINS, Instructor.

The work in chemistry necessitates as a prerequisite on the part of the student a familiarity with general inorganic chemistry, qualitative analysis and organic chemistry.

1. **QUANTITATIVE ANALYSIS.** A knowledge of quantitative methods, particularly volumetric, is necessary for the proper performance of the work in physiological chemistry. The course consists primarily of laboratory work in which the important volumetric methods are studied. Sufficient practice is given the student for the attainment of accuracy in the procedures and familiarity with the calculations. First year, second trimester, 4 weeks, 9 hours a week, 36 hours. *Professor Maryott and Mr. Jenkins.*

2. **PHYSIOLOGICAL CHEMISTRY.** In this course a study is made of the chemical composition and reactions of the carbohydrates, lipins, proteins, and other substances of biological interest. The various tissues and fluids of the body are covered, and considerable quantitative work is done on food, gastric juice, blood and urine. Nutrition and metabolism receive considerable attention, and metabolism experiments are conducted by members of the class. Frequent references are made to current literature. First year, second trimester, 8 weeks, 9 hours a week. Third trimester, 15 hours a week, 237 hours. *Professor Maryott and Mr. Jenkins.*

3. **ADVANCED PHYSIOLOGICAL CHEMISTRY.** To students who have had a suitable preparation opportunity is given to pursue chemistry beyond that given in course 2, and to enter upon the investigation of new problems. Hours to be arranged.

PHYSIOLOGY AND PHARMACOLOGY

DR. WILLIAM SALANT, Professor.

MR. ROBERT LEE JOHNSON, Instructor.

MR. HENRY WASHEIM, Jr., Assistant.

MR. W. C. HEATH, Technician.

The facilities of the department comprise a laboratory accommodating forty students, a demonstration room, three physiological and one chemical laboratory for research for members of the staff and others qualified to do research, a special room for making observations on animals, a well-equipped machine shop, a lecture room, office and library. The equipment consists of the apparatus required for experimentation on animals and for the study of human physiology including the special senses.

METHODS OF INSTRUCTION. Physiology and Pharmacology are taught by means of (a) laboratory work, (b) demonstrations, (c) lectures, and (d) recitations and conferences. In the laboratory the students, working in pairs, carry out numerous experiments on living animals under the immediate guidance and direction of the staff. A considerable percentage of the experiments are performed on mammals. Records are preserved, carefully analysed by the students and discussed in conferences. During most of the laboratory periods of both Physiology and Pharmacology, demonstrations are given by members of the staff, of experiments too difficult to be carried out by students. The lectures, recitations and conferences are designed to cover systematically the subject matter of the two fields. They parallel the respective laboratory courses, with the addition of an hour a week throughout the second term in which Physiology is reviewed.

1. **PHYSIOLOGY, (a) LABORATORY and (b) DEMONSTRATIONS.** The first three weeks are taken up with the study, on cold-blooded animals, of the physiology of nerve, of voluntary, involuntary and cardiac muscle, and of the heart as a whole. This is followed by six weeks of mammalian experiments on circulation, respiration, secretion, peristalsis, and the nervous system. The final two weeks are devoted to "clinical" physiology, including blood pressure and pulse tracings, and special senses. Twelve hours a week, twelve weeks, 144 hours. *Professor Salant, Mr. Johnston, Mr. Washeim.*

(c) **LECTURES.** The scope of physiology and the chief fundamental physiological processes are discussed in several introductory lectures. These are followed by lectures on the physiology of muscles, nervous system, circulation, and respiration. The series concludes with the physiology of the alimentary canal, secretion, metabolism and nutrition, a group which is specially emphasized. Five hours a week, twelve weeks, 60 hours. *Professor Salant, Mr. Johnston, Mr. Washeim.*

(d) **RECITATIONS AND CONFERENCES.** Three hours a week for twelve

weeks and one hour a week for eleven weeks, 47 hours. *Professor Salant, Mr. Johnston.*

2. PHARMACOLOGY. (a) LABORATORY WORK AND (b) DEMONSTRATIONS. By experiments on animals the students study first the pharmacological actions of groups of drugs, and later the actions of drugs on different organs and systems of the body, such as the heart, circulation, respiration, peristalsis, etc. The action of harmless drugs is also tested on man. One day a week for eleven weeks, 77 hours. *Professor Salant, Mr. Johnston, Mr. Washeim.*

(c) LECTURES. Several general introductory lectures are followed by the systematic treatment of drugs used in medicine, as well as of substances of purely toxicological importance. The therapeutic application of drugs is constantly emphasized in both lectures and laboratory. Four hours a week, 44 hours. *Professor Salant.*

(d) RECITATIONS AND CONFERENCES. Two hours a week, 22 hours. *Professor Salant, Mr. Johnston.*

3. RESEARCH IN PHARMACOLOGY AND PHYSIOLOGY. Students and graduates with satisfactory preparation in physics, chemistry and biology are encouraged to engage in research under the immediate direction of the head of the department.

PATHOLOGY AND BACTERIOLOGY

DR. RICHARD V. LAMAR, Professor.

DR. EDGAR R. PUND, Associate in Pathology.

ALFRED LARSON, Ph.D., Associate in Bacteriology.

MISS DOROTHY WALL SMITH, Technician.

The laboratories are completely equipped with furniture, apparatus, and materials of the best quality.

General pathology, general and special morbid anatomy and histology, and bacteriology, are taught by laboratory work, demonstrations, lectures and recitations. The courses in bacteriology come in the first and second years; those in pathology in the second. In the laboratories each student is supplied with a microscope, the necessary apparatus, and a locker. The students work separately, except that in the autopsy room and occasionally in the bacteriological laboratory they work in pairs.

1. AUTOPSIES. The autopsies are done in the morgue. The second and third classes are required, and the fourth encouraged, to attend. The second class becomes familiar through witnessing, and the third class, already prepared by the previous year's work, is taught to assist in the work, and to draw up the protocols. *Professor Lamar and Dr. Pund.*

2. GENERAL PATHOLOGY, MORBID ANATOMY AND HISTOLOGY. This is a course in the fundamental principles and processes of general pathology; the regressive changes, the progressive changes including tumors, and inflammation. Because the study of pathology differs considerably from that of other subjects much pains is taken to teach the point of view and the manner of study.

At the daily exercise a process is first explained and then illustrated by gross demonstration of selected specimens and by projection demonstration of microscopic slides. The specimens are then distributed for study. The student first studies the specimen; then makes a drawing in the note book; and also permanent notes descriptive of the process as a whole.

The student is taught to regard the structural changes not as the whole of pathology, but rather as examples and illustrations of the effect of morbid processes. Functional changes are explained in lectures and are stressed in the recitations. This course serves not merely to teach the principles of pathology, but also to prepare the student for the later and more comprehensive study of pathology in the clinic and the wards.

The museum is well supplied with selected and attractively preserved specimens. The microscopic slides are lent from a collection.

Second year, 15 hours a week, 165 hours. *Professor Lamar and Dr. Pund.*

3. SPECIAL PATHOLOGY. A course in the diseases of the systems, including Gynecological, Pathology and Neuropathology.

The plan of the work is the same as in the course in General Pathology, to which indeed this course is directly complementary. Drawings and permanent notes are required as before. Late in the course special attention is given to surgical pathological diagnosis. Second year, 15 hours a week, 165 hours. *Professor Lamar and Dr. Pund.*

4. BACTERIOLOGY. Lectures upon the historical development of bacteriology, upon the systematic position of the bacteria, their general properties and classification, and their relation to fermentation, putrefaction, and infectious diseases, introduce the subject. While the lectures are still in progress the student begins the practical work in the laboratory. He learns the methods of sterilization and the preparation of culture media. He is taught to cultivate, isolate and identify bacteria, beginning with certain saprophytes. Then the commoner species pathogenic for man are studied in detail. The laboratory exercise is preceded by a lecture in which the object and principle of what the student is about to do is made clear to him. First year, 18 hours a week, 198 hours.

5. INFECTION AND IMMUNITY. A course of lectures with demonstrations and recitations. History and practical application are made prominent. Second year, two hours a week, 20 hours. *Professor Lamar.*

6. ADVANCED WORK. Encouragement and opportunity are afforded to qualified students to follow advanced work, and to a few graduates to learn the common methods of investigation employed in research in pathology and bacteriology. For these purposes the laboratory is suitably equipped with apparatus and supplied with material.

MEDICINE

DR. V. P. SYDENSTRICKER, Professor, Director.
DR. THOMAS D. COLEMAN, Professor.
DR. EUGENE E. MURPHEY, Professor.
DR. WILLIAMS R. HOUSTON, Professor.
DR. R. W. HOUSEAL, Assistant Professor.
DR. WILLIAMS J. CRANSTON, Assistant Professor.
DR. A. A. DAVIDSON, Assistant Professor.
DR. J. H. BUTLER, Associate.
DR. A. BLACKSHEAR, Lecturer.
DR. F. L. LEE, Instructor.
DR. KING W. MILLIGAN, Instructor.
DR. A. W. WALDEN, Instructor.
DR. W. D. JENNINGS, Assistant.

A course in physical diagnosis in the second year lays the foundation for the medical courses that are to follow. During the third year advanced work is given in physical and medical diagnosis, using chosen cases from the abundant material of the medical out-patient department. During this year a comprehensive survey of medicine is given by means of a quiz course based on Osler's Practice. In the fourth year two hours weekly are devoted to lectures, and the remainder of the students' time to clinical and bedside work. Each medical case entering the hospital is assigned to a student who is made responsible for a thorough study of the present state and future progress of the case. In both recitation and clinical periods due attention is given to applied therapeutics.

1. PHYSICAL DIAGNOSIS. Recitations, demonstrations, and practical exercises in the technique of physical diagnosis. Second year, 12 hours a week, 132 hours. *Professor Sydenstricker.*

2. CLINICAL PATHOLOGY. This course prepares the student for his laboratory work in the clinic and ward. The common methods of making laboratory examinations of material from the sick are taught systematically, beginning with the blood, and comprising the urine, sputum, feces and exudates. The necessary material is supplied by the hospitals and clinics. The student himself makes all of the examinations except the Wasserman test which is demonstrated in detail. The notebook is required and recitations are held. Third year, nine hours a week, 126 hours. *Dr. Houseal.*

3. MEDICINE. A large part of general medicine is covered in this course by means of recitations based on Osler's Practice of Medicine, with collateral reading. Diseases that can be studied in the clinics are passed over rapidly. Third year, three hours a week, 102 hours. *Dr. Jennings.*

4. CLINICAL MEDICINE. Practical instruction is given to small sections in the out-patient department, covering history taking, physical examination, differential diagnosis and treatment of medical cases. Third year, 12 hours a week, 144 hours. *Professor Sydenstricker and Drs. Houseal and Butler.*

5. THERAPEUTICS. This course is designed to give the student a practical knowledge of the treatment of the disease. The general indication for the use of and the means of employment of each drug are fully discussed. The actions of such drugs as are indicated in the various diseases, and the best preparations to be used, are thoroughly considered. Third year, three hours a week, 102 hours. *Drs. Davidson and Walden.*

6. LECTURE AND RECITATION COURSE. The aim is to give the student a thorough knowledge of the most important internal diseases according to the current classification. Diseases that are thoroughly studied in the clinics are passed over rapidly. Fourth year, two hours a week, 30 hours. *Professor Coleman.*

7. WARD WORK. For a period of eleven weeks one-third of the fourth year class is assigned to duty in the medical wards of the hospital. Each medical case in the ward is assigned to a student, who is required to record the history and the physical findings, and to make the routine laboratory examinations. Each student during the past session has had an average of four patients continually under his care. The student is required to make rounds with the visiting physician daily, and to take notes on the clinical course of the case and the therapeutic measures employed. Fourth year, 10 hours a week, 110 hours. *Professors Murphey, Houston, Sydenstricker and Lamar; Drs. Cranston and Butler.*

8. MEDICAL CLINIC. Third and fourth years. One hour a week, clinical lecture and demonstration. *Professors Murphey and Houston.*

9. WORK IN THE Out-PATIENT DEPARTMENT. In this course the student is assigned a newly-admitted patient. After the student has taken the history and made a physical examination, the physician in charge goes over the case with him, pointing out omissions or defects in his work, and consulting as to the differential diagnosis, the prognosis and treatment. About 3,337 patients were admitted to the medical rooms of the out-patient department during the past session. Fourth year, 82 hours. *Professor Sydenstricker, Drs. Houseal, Davidson, Walden and Butler.*

10. MEDICAL JURISPRUDENCE. Lecture course on this subject from both the medical and legal aspects. Third year, two hours a week, 36 hours. *Mr. Blackshear.*

11. CLINICAL PATHOLOGICAL CONFERENCE. Clinical and autopsy findings are compared and correlated. The histories and material are from the hospital. Fourth year, one hour a week, 34 hours. *Dr. Lamar and Medical Staff.*

SUB-DEPARTMENT OF NEUROLOGY

DR. WILLIAM J. CRANSTON, Assistant Professor.

1. A RECITATION AND LECTURE COURSE ON ORGANIC DISEASES OF THE NERVOUS SYSTEM. Taylor's Case Teaching in Neurology is studied and supplemented by collateral reading in the standard texts. Third year, three hours a week, 33 hours. *Dr. Cranston.*

2. A LECTURE AND RECITATION COURSE IN NEUROSES AND PSYCHOSES. On certain days clinical cases illustrating organic nervous diseases are presented to the class. Fourth year, two hours a week, 68 hours.

3. CLINICAL PSYCHIATRY. The class is taken for one day each week to United States Veterans Hospital No. 62, where clinical demonstrations by the staff are given. Fourth year, 30 hours. *Maj. M. C. Baines and Staff.*

DEPARTMENT OF PEDIATRICS

DR. NOEL M. MOORE, Professor.

DR. WILLIAM A. MULHERIN, Clinical Professor.

DR. H. J. BAKER, Associate Professor.

DR. H. P. HARRELL, Instructor.

DR. FRANK MULHERIN, Instructor.

DR. T. D. DOTTERER, Assistant.

Realizing that only by actual study of sick children can the important diagnostic and therapeutic differences peculiar to this branch of medicine be mastered, the instruction is essentially practical. The subject is taught during the last twenty weeks of the third year and throughout the fourth year.

1. During the last twenty weeks of the third year, the class is given a quiz course in the care of the newly-born, normal development of the infant, symptomatology, diagnosis and therapeutics, diseases of the newly-born, and infant feeding. Third year, two hours a week, 40 hours. *Dr. Baker.*

2. During the fourth year the various diseases of infancy and childhood are taught by means of case histories furnished by the instructors. Students, assigned to patients in the pediatric wards of the University Hospital, are at times required to present case histories of the patients under their observation. After a thorough discussion of the differential diagnosis, the patient is presented for demonstration, and treatment fully considered. Fourth year, two hours a week, 68 hours. *Professors Moore and Mulherin.*

3. OUT-PATIENT DEPARTMENT. The class in small sections is required to work daily for a period of six weeks in the pediatric clinic. The number of patients during the last session was 972. Each student is required to make a special study of one disease while working in the clinic, and, at the end of the six weeks' period, a section conference

is held at which each student presents his observations on the particular disease assigned him, and there is a general discussion of the subject by the students under the direction of the instructors. Fourth year, 10 hours a week, 60 hours. *Drs. H. J. Baker, Frank Mulherin, Harrell and Dotterer.*

4. HOSPITAL. The excellent opportunities afforded by the Pediatric Ward in the University Hospital and the Wilhenford Children's Hospital are made use of for the teaching of infant feeding and for the study of those infants too ill to be treated in the clinic. Fourth year, two hours a week, 60 hours. *Professors Moore and Mulherin.*

5. PREVENTIVE PEDIATRICS. A "Well Baby Clinic" is held for the benefit of the out-patient department, babies and their mothers. Feeding, hygiene, etc., are drilled into the mothers. Fourth year students in groups of 8 are required to attend. Fourth year, two hours a week, 60 hours. *Professors Moore and Mulherin, Drs. Baker, Harrell and Dotterer.*

SURGERY

DR. RALPH H. CHANEY, Professor, Director.
DR. CHAS. W. CRANE, Professor.
DR. H. M. MICHEL, Professor.
DR. ASBURY HULL, Clinical Professor.
DR. G. T. BERNARD, Clinical Professor.
DR. G. A. TRAYLOR, Clinical Professor.
DR. R. L. RHODES, Associate Professor.
DR. W. W. BATTEY, Associate.
DR. W. H. ROBERTS, Associate.
DR. J. R. ROBERTSON, Associate.
DR. PETER B. WRIGHT, Instructor.
DR. SAMUEL HINTON, Instructor.
DR. ROBERT I. BRYSON, Assistant.

The endeavor in surgical teaching is to place the greatest stress upon diagnosis. The technical side of surgical training, properly, should be emphasized by graduate study and hospital training. An attempt is made through operative clinics in the hospitals and by the personal experimental work to give the student a general idea of the applicability of operative procedure. Instruction starts in the second year with a course in minor surgery including the application of surgical dressings. During the third year teaching is by recitation and lecture, with individual work in the out-patient department and in the laboratory of surgical research. The fourth year is essentially clinical. The student spends his mornings in the hospital as a clinical clerk or attending clinics, and his afternoons in special departments of the out-patient clinics.

1. MINOR SURGERY. Lecture and recitation course covering the treatment of minor infections and simple injuries, followed by a practical course in bandaging, splint making, and their application. Second year, 5 hours a week, 11 weeks. *Drs. Traylor, Hinton, and assistants.*

2. SURGICAL DIAGNOSIS. Recitation and quiz course. An intensive course intended to bring the general fundamentals of diagnosis rapidly to the attention of the student. Third year, 1 hour a week, 34 weeks. *Dr. Battey.*

3. PRINCIPLES OF SURGERY. A systematic lecture course running through the entire last two years, covering the field of general surgical diagnosis in a detailed manner. Knowledge gained from text-books is supplemented by information abstracted from the current literature. Third year, 2 hours a week, 34 weeks. *Dr. Chaney.*

4. CLINICAL SURGERY. Instruction in the out-patient department. Under the instruction of the clinical staff, the student is taught diagnosis and treatment of ambulatory conditions and as far as possible is

allowed to perform and assist in minor operations. One period a week is devoted to orthopedics. Third year, 12 hours a week, 6 weeks. *Drs. Chaney, Crane, Michel, Traylor, Battey, P. B. Wright.*

5. SURGICAL TECHNIC. A practical course given in the department of surgical research. The students in small groups are required to perform those operations which are suitably done on experimental animals. All work is done under rigid asepsis, the same care being used as is maintained in similar cases in the hospital, the animal being under ether anaesthesia. The course is intended to give the student an early first hand knowledge of surgical instruments, surgical procedure, and aseptic technique, as well as to form a background upon which later the student may on his own election undertake personal research study. Third year, 6 hours a week, 12 weeks. *Dr. Chaney and Assistants.*

6. SURGICAL PATHOLOGY. A pathological study of material removed at operation. The gross morbid and microscopic processes of the disease are presented from the pathological point of view by the pathologist, and the clinical course, diagnosis and after results are taken up by the clinical surgeons. Third year, 4 hours a week, 11 weeks. *Drs. Lamar and Chaney.*

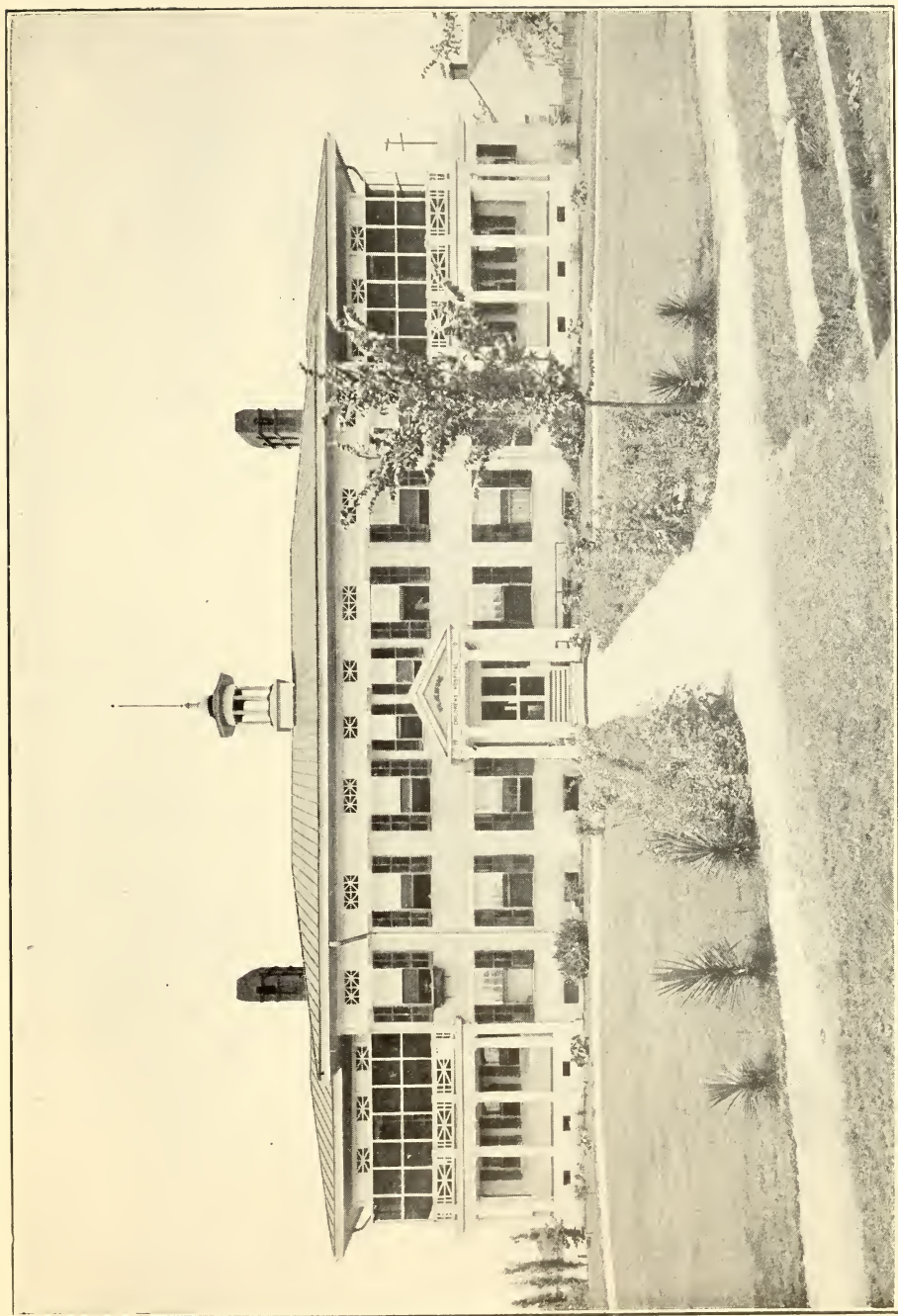
7. CLINICAL CLERKSHIPS. The students are assigned in sections to the surgical wards of the hospital for one-third of the year. They are required to make routine histories, physical examinations, and laboratory tests, and, in consultation with the staff, complete the necessary special examinations, which will aid in diagnosis. The student is encouraged to make his diagnosis independently, but at all times is under the supervision of the house staff. Fourth year, 11 weeks. *Drs. Rhodes, Hinton, and assistants.*

8. WARD CLASSES. Twice a week the students in the surgical section meet with an instructor for general case discussion, special emphasis being placed on differential diagnosis and therapy. Fourth year, 2 hours a week, 11 weeks. *Drs. Chaney and Crane.*

9. SURGICAL CLINICS. During the period of assignment to the surgical wards of the hospital, the student is required to attend all operative clinics, at which diagnosis, operative technic and expected results are brought out in detail. Fourth year, 4 hours a week, 11 weeks. *Drs. Chaney, Crane, Traylor, Bernard, Rhodes and Battey.*

10. SURGICAL RESEARCH. This is an elective course open to students having completed course 5 or its equivalent. The endeavor is made to encourage individual, constructive thinking on the part of the student, as well as to obtain solution of surgical problems. Fourth year. Elective. 4 hours a week, 11, 23 or 34 weeks. *Dr. Chaney and assistants.*

11. MEDICAL-SURGICAL CLINICS. A general discussion clinic for the



WILHENFORD CHILDREN'S HOSPITAL

entire fourth year class. A special effort is made to present cases having definite diagnostic problems in which both the medical and surgical aspects are evident. The aim is to show that any sharp division between the fields of medicine and surgery is superficial. Fourth year, 2 hours a week, 34 weeks. *Drs. Sydenstricker, Murphey, Chaney and Rhodes.*

12. PRINCIPLES OF SURGERY. Continuation of course 3. Fourth year, 2 hours a week, 34 weeks. *Dr. Chaney.*

13. ORTHOPEDIC SURGERY. A clinical period every second Monday, for members of the surgical section assigned to the hospital wards. The time is devoted to operative clinics, ward demonstrations and informal lectures. Fourth year, 11 clinics. *Dr. Michel.*

14. ORTHOPEDICS. This is a systematic lecture and recitation course, covering the general field of orthopedic surgery. Third year, 2 hours a week, 11 weeks. *Drs. Michel and P. B. Wright.*

15. GENITIO-URINARY SURGERY. A clinical period is given every second Monday, to members of surgical section. The time is devoted to operative clinics, ward demonstrations, and informal lectures. Fourth year, 11 clinics. *Dr. Asbury Hull.*

16. CLINICAL GENITO-URINARY DISEASES. Continuous service in outpatient department for sections of the fourth year class. Practical training is acquired in the diagnosis and treatment of genito-urinary diseases, including cystoscopy. Fourth year, 10 hours a week, 6 weeks. *Drs. Robertson and Roberts.*

SUB-DEPARTMENT OF DERMATOLOGY

1. Recitations based on a standard text-book in dermatology are given throughout one trimester. Fourth year, one hour a week, 34 hours. *Dr. Bernard.*

2. The dermatological clinic is attended by the class during one trimester. Fourth year, two hours a week, 36 hours. *Dr. Bernard.*

SUB-DEPARTMENT OF GYNECOLOGY

DR. W. H. GOODRICH, Professor.

DR. GEORGE T. HORNE, Associate Professor.

DR. E. A. WILCOX, Associate Professor.

DR. JOHN C. WRIGHT, Associate in Gynecology.

1. PRINCIPLES OF GYNECOLOGY. This is a recitation and lecture course in the principles and practice of gynecology. Fourth year, two hours a week, 68 hours. *Professor Goodrich.*

2. CLINICAL GYNECOLOGY. This is a course in the clinical examination and diagnosis of cases in the out-patient department. Fourth year, 10 hours a week, 120 hours. *Drs. Horne and Wilcox.*

3. OPERATIVE GYNECOLOGY. This course consists of work in the hospital wards and operating rooms. The class is divided into sections, each section in turn serving as clinical clerks. Cases are assigned to each clerk who is required to secure a complete history and make such examinations, physical or laboratory, as may be essential. In the event of an operation the student assigned to the case is required to assist and make the records. All major operations performed in the hospitals are attended by the group of students assigned to surgical service. Fourth year, 34 periods. *Professor Goodrich, Drs. Wright and Wilcox.*

OBSTETRICS

DR. JOSEPH AKERMAN, Professor, Director.

DR. ANDREW J. KILPATRICK, Professor.

Instruction is both didactic and practical. It begins in the third year and extends through the third and fourth years. During the third year a course in the physiology of normal pregnancy and labor is given supplemented by demonstrations on the manikin and the living subject in the prenatal clinic. During the fourth year the whole class meets Professor Kilpatrick once each week for study of the various obstetrical complications. The students are also assigned to practical duty in pairs.

The out-patient obstetrical service has been developed to such an extent that it affords opportunity for each student to attend from fifteen to twenty-four cases. Of these he is required to manage at least twelve. The two students on duty reside in the hospital and are subject to call for ward deliveries as well as out-patient calls.

1. LECTURES, RECITATIONS AND MANIKIN DEMONSTRATIONS ON THE PHYSIOLOGY OF PREGNANCY AND LABOR. Third year three hours a week throughout the entire year, 100 hours. *Professor Akerman.*

2. PRENATAL STUDY. This includes practice in history taking, palpation, auscultation and pelvimetry. This course is given to small groups throughout the third year. Ten hours a week for two weeks, 20 hours. *Professor Akerman.*

3. WEEKLY CONFERENCES AND CLINICS ON THE MANAGEMENT OF COMPLICATED CASES. Ward cases in the hospital are used for this course. One hour a week throughout the entire fourth year, 33 hours. *Professor Kilpatrick.*

4. OUT-PATIENT SERVICE. For this course the fourth year class is divided into pairs. Each student serves from twenty-four to thirty days according to the size of the class. During his term of service the student resides in the hospital. For the first half of his term of service he acts as assistant to his predecessor and then delivers at least twelve patients himself, preparing and submitting case histories and data for birth certificates for cases attended. While on this service students are allowed to assist in the management of hospital cases. *Professors Akerman, Kilpatrick and Resident Staff.*

5. OPERATIVE CLINICS. Arrangements are made whereby both third and fourth year classes witness operations of unusual interest. Visiting and Resident Hospital Staff.

OPHTHALMOLOGY AND OTO-LARYNGOLOGY

DR. JAMES M. HULL, Professor.

DR. T. E. OERTELL, Professor.

DR. W. C. KELLOGG, Professor.

DR. C. I. BRYANS, Clinical Professor.

DR. S. J. LEWIS, Clinical Assistant.

DR. MARION SILVER, Clinical Assistant.

1. PRINCIPLES OF OPHTHALMOLOGY AND OTO-LARYNGOLOGY. Instruction in these branches is given by means of didactic lectures, clinical lectures, and demonstrations. Diseases of the organs of special sense are taught in a systematic way, special attention being paid to pathology and diagnosis. Fourth year, one hour a week, 20 hours. *Professor Hull.*

2. SURGERY OF THE EYE, EAR, NOSE AND THROAT. A course in the surgical treatment of the diseases of the eye, ear, nose and throat. Fourth year, three hours a week, 15 hours. *Professors Hull, Oertel, Kellogg and Bryans.*

3. CLINICAL. A continuous service in the out-patient department. Practical training in diagnosis and treatment of the diseases of the eye, ear, nose, and throat. Instruction is given in the use of special diagnostic instruments. Fourth year. *Professors Hull, Oertel and Bryans.*

4. CLINICAL SURGERY. This course consists of work done in the operating room at the hospital. Operations in this department are attended by the group of the students assigned to the surgical service. Fourth year, one hour a week, 33 hours. *Professors Hull, Oertel, Kellogg and Bryans.*

PUBLIC HEALTH

- DR. H. B. NEAGLE, Professor,
Commissioner of Health of Augusta and Richmond County.
MR. R. N. HOYT, Assistant Professor,
Bacteriologist for the Board of Health.
DR. R. W. TODD, Associate,
Serologist for the Board of Health.
MISS EMMA E. GRITTENGER, Instructor,
Chief of the Bureau of Nursing.
MISS ELLEN MARSH, Technician.

SPECIAL LECTURES

- DR. SAM. T. DARLING.
MR. JOSEPH La PRINCE, C.E.A.M.
DR. L. D. FRICK.
DR. L. L. LUMSDEN.
DR. VICTOR HUGO BASSETT.

The City of Augusta and Richmond county are united under the Ellis Health Law of the State of Georgia in a health program which affords unusual opportunities for teaching. The Director of the Department of Public Health in the Medical School is Commissioner of Health of the City of Augusta and Richmond county. Under his direction and control, actual experience in city and county health work is available for medical and graduate students, and for the nurses in the University Hospital training schools. The combination of City and County health work under the supervision of the Director of the Department of Public Health of the University Medical School, offers opportunity for practical work in all fields of public health activity. In the University Hospital are isolation rooms for contagious diseases, and provision is made for the admission of special cases sent in by the Board of Health, which ensures material for teaching purposes. General and special clinics provide ample clinical material. Well-baby clinics are being established in connection with the welfare work at the larger cotton mills. The U. S. V. B. Psychiatric Hospital, with 250 beds, maintained by the government for the treatment of ex-soldiers with psycho-neuroses, and the Gracewood Hospital, 50 beds, for mentally defective children maintained by the State, offer facilities for special study. A staff of seven white and four colored nurses is employed by the Health Department in school, clinic, and general bedside nursing. A full time veterinarian, with two assistants, superintends the milk and food supply of the city. Two well equipped pasteurization plants, several bottling works, two large abbatoirs, several packing and cold storage plants, offer opportunity for a study of food pro-

duction and distribution. A corps of sanitary inspectors is available for malarial control and other special measures. A full time County Health Officer and one nurse are employed at present in rural health work.

COURSES FOR MEDICAL STUDENTS

Effective co-operation among the heads of departments in the medical school permits the blending of instruction in the elements of preventive medicine with the teaching of other aspects of disease. The work is distributed through the four years of the medical course, in order to avoid overcrowding or radical alteration of the regular curriculum.

FIRST YEAR. Instruction in Preventive Medicine is begun in the first year through a course in personal hygiene. This consists of lectures by specialists, quizzes, filling out of the standard periodic examination blanks by students and examiners in conference, and a thesis based on Fisher and Fisk—"HOW TO LIVE."

The topics covered by lectures are: 1, hygiene of eye and ear; 2, hygiene of nose and throat; 3, venereal disease (a) personal, (b) community; 4, exercise and rest; 5, food: (a) assimilation, (b) elimination, (c) protection of food and water supply; 6, protection against disease, (a) personal, (b) community; 7, mental hygiene: (a) personal, (b) community. Practical work includes compulsory physical examination of each student, and filling out of the standard periodic examination blank; semi-compulsory vaccination against small-pox and typhoid; visits to abattoirs, cold storage plants, pasteurization plants and city water plants.

The course comprises 1 hour weekly for the academic year with several Saturday afternoon trips, a total of 63 hours.

SECOND YEAR. In the second year, the bacteriological work is extended to public health laboratory methods. The functions of a public health laboratory are explained, and the routine activities are actually performed. Community and personal hygiene teaching is extended. In the latter half of the year special public health measures in school work are studied in connection with the course in immunity and serum therapy. Special subjects are assigned to students for original investigations. Topics so assigned include the history, function, and future of vital statistics, mortality, morbidity, and infant mortality. Special stress is laid upon a complete bibliography of original and recent articles, with reprints attached, whenever available.

The Public Health Laboratory Methods which are taught include: diagnostic bacteriology, diagnostic parasitology, and identification of mosquitoes. Under sanitation, a study is made of the breeding of mosquitoes, flies, etc., and the protection and control of water, milk, and food supply, as practiced by the Board of Health, comprising

laboratory and field work. Under immunity are included lectures and practical demonstrations, a compulsory Schick test, and voluntary toxin, anti-toxin treatment. Lectures are given on serology, and voluntary Wassermann tests are made on members of the class. The course comprises a total of 66 hours.

THIRD YEAR. In the third year the clinical work is extended to the special health functions, such as well-baby clinics and school inspection. Special diseases are assigned to individuals who investigate and report regarding the cause, course, prevention, possibility of transmission to others, and the relation to community or personal hygiene. A summary of recommendations for preventive measures is required. Public health administration lectures are given, and a sense of community responsibility is developed by investigation into every activity of the Department of Public Health. A written report is required of every student after each investigation.

Practical work of this year includes the application of vaccine and serum therapy, as participants in the health activities of the City and County; school inspection, visits to welfare stations, play grounds, and various childrens' institutions; demonstration of the collection and analysis of statistics as practiced by the Health Department. This course comprises a total of 103 hours.

FOURTH YEAR. A thesis on some phase of public health is required for presentation before the class at some period of the year. Lectures on vital statistics are supplemented by practical work in the compilation and analysis of statistics collected by the Board of Health during the current year.

Prenatal visits with the staff of the board of health prepare the students for obstetrical service. Preventive pediatrics is studied in a special clinic supplied by material from welfare stations and well-baby clinics. Attendance at well-baby clinics is compulsory and preparatory for the work as conducted in the special preventive pediatrics clinic and the sick-baby clinic.

Special problems in child welfare, epidemic control, school hygiene, health campaigns, surveys, etc., are worked out as opportunity offers, and a special effort is made to have a number of active workers in the public health field deliver lectures at frequent intervals.

Mental hygiene is emphasized as a community problem and practical experience in its solution is offered by clinics for delinquent children, and visits to the State Home for Mentally Defective, and the Lenwood Hospital.

A summary of public health work, with emphasis on a definite plan for city and county health activities, occupies the last twelve hours of the Spring term. This course comprises a total of 66 hours. The

total number of hours assigned to the Department of Preventive Medicine is 298.

PUBLIC HEALTH NURSING

The staff of public health nurses has been strengthened by the addition of a competent supervising nurse and supervisors for county, school, and child welfare work.

Public health nursing is being taught undergraduate nurses along the same lines that have been found successful for medical students. A post-graduate course is offered beginning January 1st, 1925.

POST GRADUATE INSTRUCTION

Under the Ellis Health Law, training of prospective county health officers in all branches of health work is provided free of charge to residents of the State of Georgia. Non-residents are charged according to the length of the course pursued. Through special arrangements with the State Board of Health, short intensive courses of six to eight weeks are provided for prospective county health officers of Georgia. Students taking these intensive courses are then eligible for county positions, with the understanding that they will supplement the work by further study later, as determined by the Director of the Department and the Commissioner of Health of Georgia.

DEGREES

BACHELOR OF PUBLIC HEALTH

Prerequisites: The student must have completed a course of study qualifying him to matriculate as a student of the Medical College. The satisfactory completion of an approved program of at least one year in the school of Public Health will be necessary to obtain the degree of Bachelor of Public Health.

Doctors of Medicine completing a maximum of six weeks intensive training in the school for Public Health, combined with actual experience in City, County, or State Health Departments under the supervision of the Director of the School of Public Health and the Commissioner of Health of the State of Georgia, are granted this degree after passing a satisfactory examination.

MASTER OF PUBLIC HEALTH

The Master's degree represents one year's advanced work following the Bachelor's degree in Public Health or its equivalent. The work may be wholly or only partially in the school.

Doctors of Medicine having had six weeks intensive training in the School of Public Health and having completed a satisfactory program

of City, County, or State Public Health work under the supervision of the Director of the School of Public Health and Commissioner of Health of the State of Georgia are granted this degree. The program must be presented in writing before being undertaken and its duration will depend upon the qualifications of the candidate and the nature of the work.

DOCTOR OF PUBLIC HEALTH

Doctors of Medicine who have concluded at least one year's training in the School of Public Health or its equivalent and who have spent one year in the completion of an approved program are granted this degree after presenting a thesis and undergoing an oral examination. The program outlined may deal with City, County, or State Health work in any or all their respective phases.

FOURTH YEAR STUDENTS

Herbert Steed Alden	Decatur, Georgia.
William Douglas Anderson	Athens, Georgia.
Lloyd Kennedy Boggs	Liberty, South Carolina.
William Abraham Bostick	Camilla, Georgia.
Thomas Gibson Brooks	Agricola, Georgia.
Harry Langdon Cheves	Macon, Georgia.
Laurie Lester Dozier	Hillman, Georgia.
Waldo Emerson Floyd	Statesboro, Georgia.
John Malcolm Gorman	Savannah, Georgia.
Wyatt Hammond Groves	Lincolnton, Georgia.
Harry Benjamin Haisfield	Griffin, Georgia.
William Joseph Huson	Covington, Georgia.
Walter Byron Jameson	Columbus, Georgia.
Julius Doar Johnson	Augusta, Georgia.
George Lombard Kelly	Augusta, Georgia.
Herman Traube Kennedy	Collins, Georgia.
Charles Beatty Kenney	Athens, Georgia.
Emmette Edward Martin	Hilton, Georgia.
Leldon Walls Martin	Adairsville, Georgia.
Robert Carey McGahee	Dearing, Georgia.
Harry Hand McGee, Jr.	Savannah, Georgia.
James David McGlamery	Bainbridge, Georgia.
Jones Beulah Oliphant	Wrens, Georgia.
Logan Skidmore Owen	Macon, Georgia.
Wallace Lamar Poole	Atlanta, Georgia.
Albert Henry Powell	Augusta, Georgia.
Thomas Porter Reville	Jesup, Georgia.
Patrick Henry Smith	Glennville, Georgia.
David Steinberg	Augusta, Georgia.
Benjamin Arthur Wilkinson	Quitman, Georgia.
Perino Boone Wingfield	Athens, Georgia.

THIRD YEAR STUDENTS

Colden Rhind Battey	Augusta, Georgia.
Ellis Malcolm Bond	Danielsville, Georgia.
George Wilmot Brown, Jr.	Lawtey, Florida.
Verlin L. Bryant	Bartow, Georgia.
William Jennings Burdshaw	Augusta, Georgia.
William Frasier Dobyns	Fries, Virginia.
Andrew Herbert Fowler	Woodstock, Georgia.
John G. Hood, Jr.	Dacula, Georgia.
John Daniel Lamon, Jr.	Macon, Georgia.
Thomas Edward Morgan	Newnan, Georgia.

Justo Luis Munoz	Baltimore, Maryland.
Hubert Conrad Orr	Flowery Branch, Georgia.
George Williams Richardson	Savannah, Georgia.
Tenney Hugh Roberts	Macon, Georgia.
Walter Henry Rose	Unadilla, Georgia.
Carl Preston Savage	Rose Hill, North Carolina.
Racy Hawkins Smith	Harrison, Georgia.
John Trantham Stephenson	Hartsville, South Carolina
Frank Crawford Story	Doerun, Georgia.
Powell McRae Temples	Statesboro, Georgia.
Hugh Capers Walker	Eatonton, Georgia.
Earle Loy Warren	Swainsboro, Georgia.
Percy Dell Weeks	Millen, Georgia.
Richard Bynum Weeks	Harlem, Georgia.
John Davidson Wiley	Sparta, Georgia.
James Robert Wilson	Thomson, Georgia.
Lewis H. Wright	Augusta, Georgia.

SECOND YEAR STUDENTS

Joseph Faraci Bartoli	New York, N. Y.
Hubert Hiram Blanchard	Harlem, Georgia.
Reddin Britt	Lumberton, North Carolina.
Harry Diamond	Patterson, N. J.
Loree Florence	Athens, Georgia.
Joseph Reid Gay	Wrens, Georgia.
William Wallace Hardman	Crawford, Georgia.
James Russell Howell	Canton, Georgia.
Robert Nelson Hoyt	Augusta, Georgia.
Harry Milton Kandel	Savannah, Georgia.
William Henry Kelley	Columbus, Georgia.
Carl Turner Martin	Ashland, Georgia.
James George McDaniel	Eastman, Georgia.
Walter Galliher Miles	Dalton, Georgia.
John Williams Mobley, Jr.	Milledgeville, Georgia.
Wilbur Graham Mullis	Cochran, Georgia.
James Walter O'Dell	Athens, Georgia
Francisco R. de Porras	Anasco, P. R.
Jules Victor Roule, Jr.	Mansura, La.
Thomas Judson Sasser	Statesboro, Georgia.
Horace Daniel Smith	Tennille, Georgia.
John William Thurmond, Jr.	Edgefield, Georgia.
John Marshall Walton	Dublin, Georgia.
Charles Newton Wasden	Midville, Georgia.
Samuel Weitzen	New York, N. Y.
Courtland Daniel Whitaker	Harlem, Georgia.

George Washington Wright, Jr.-----Augusta, Georgia.
 John Frampton Wyman-----Aiken, South Carolina.
 George Mingledorf Zeagler-----Zeigler, Georgia

FIRST YEAR STUDENTS

Tommie Martin Adams-----Elberton, Georgia.
 James Mason Baird-----Columbus, Georgia.
 William Ward Baxley-----Hepzibah, Georgia.
 Courtland Beeler, Jr.-----Augusta, Georgia.
 Rudolph Foster Bell-----Callison, South Carolina.
 Arsenio Comas-----Cabo Rafo, P. R.
 Feltz Cleveland Davis-----Macon, Georgia.
 John Berlin Fitts-----Danielsville, Georgia.
 Willard Robert Golsan, Jr.-----Macon, Georgia
 Emily Cumming Hammond-----Augusta, Georgia.
 Ole Cleveland Jackson-----Augusta, Georgia.
 Julian Cleon Josey-----Bartow, Georgia.
 Homer Harrison Lancaster-----Gainesville, Georgia.
 Byrl Benjamin Lane, Jr.-----Donaldsonville, Georgia.
 John Dunn Lane, Jr.-----Bernier, Georgia.
 William Harvey Long-----Darien, Georgia.
 Alfred Larson-----Wausa, Wisconsin.
 Earl Velpour Lord-----Macon, Georgia.
 John Robert McGibony-----Greensboro, Georgia.
 Hugh Mobley-----Union Point, Georgia.
 Malcolm Mosteller-----Lyerly, Georgia.
 Elizabeth Nanigian-----Paxton, Mass.
 Mary Nanigian-----Paxton, Mass.
 Leroy Henry Oetjen-----Augusta, Georgia.
 John Calhoun Peterson-----Ailey, Georgia.
 John Holmes Pinholster-----Ludowici, Georgia.
 Cuthbert Ennis Powell-----Swainsboro, Georgia.
 Jose Lebron Ramos-----San Lorenzo, P. R.
 Lewis Lacey Rawls-----Wrightsville, Georgia.
 Charles Morgan Rogers, Jr.-----Chester, Georgia.
 Paul Thurman Scoggins-----Athens, Georgia.
 Claude Raymond Smith-----Atlanta, Georgia.
 James Willingham Stanford, Jr.-----Cartersville, Georgia.
 James Lawson Strange-----Oak Park, Georgia.
 Milton Joseph Summerville-----Mayfield, Ky.
 Otho O'Dell Watson-----Dublin, Georgia.
 Martin Bryan Woodward-----Augusta, Georgia.
 Comer Roger Youmans-----Lexsy, Georgia.

THE UNIVERSITY HOSPITAL SCHOOL OF NURSING

ALICE L. STEWART, R.N., Superintendent of Nurses and Principal of Training School.

The University Hospital School of Nursing offers to its pupils unusual facilities for obtaining adequate instruction and training in this most important and attractive field of usefulness for women. Among the advantages offered are opportunities to work under the direction of the specialists in medicine and surgery of the Medical School; and, in such sciences as bacteriology and clinical microscopy, to receive instruction from members of the college Faculty in the laboratories of the hospital.

Careful teaching in nursing methods and bedside care is given by a well selected staff of graduate nurses, who also supervise the work on the wards. The theoretical work is directed and supervised by a full time instructor who correlates it with the practical work. The University Hospital School of Nursing also offers each nurse a definite period in the out-patient department of the Medical School. There she may see treated diseases of milder form which do not come to the hospital ward, such as ear, eye, nose, and throat diseases and subacute skin diseases. This training is of distinct advantage to those nurses who may later choose the public health field and is filling a long felt want in nurses' training. A new course in practical pharmacy has been inaugurated with much success.

There is operated a branch of District Nursing in connection with the out-door service of the Medical School, and pupil nurses will be able to have valuable training in this field during their third year. In this work the student nurse accompanies graduate visiting nurses on their daily rounds, assists in the care of patients, learns to keep records, make reports, etc. This is an unusual opportunity since few schools offer a course in Public Health Nursing included as a part of their three years' training course.

REGISTRATION

The University Hospital School of Nursing is an integral part of the Medical Department of the University of Georgia, operating under its charter, and is registered under the laws of the State of Georgia and New York, thus giving its graduates standing in both states. The School secured its New York registration before training schools were standardized in Georgia, and has been one of the foremost in the struggle for higher standards in nursing education.

PLAN OF INSTRUCTION

The school curriculum conforms to that planned by the National League of Nursing Education and is approved by the best training

schools in the United States. The course of instruction is graded and lasts for three years. The first year is devoted to a probational course of two months, a preliminary course in Anatomy and Physiology, Bacteriology, Personal Hygiene, Elementary Chemistry, Nutrition and Cookery, Hospital Housekeeping, Drugs and Solutions, Elementary Nursing, Bandaging, Ethics. Pathology, Materia Medica, Diet in Disease, Pharmacy.

INTERMEDIATE YEAR. Surgery, Medicine, Pediatrics, Orthopedics, Communicable Diseases, Gynecology, Obstetrics, Eye, Ear, Nose and Throat, Public Sanitation.

THIRD YEAR. Mental and Nervous Diseases, Occupational, Skin and Venereal Diseases, Emergency Nursing, Electives as follows: Public Health Nursing, Private Nursing, Institutional Work, Laboratory Technique.

During the three years much of the instruction is arranged in lecture courses given by the resident and attending staff. The lectures are followed in each instance by quiz and demonstration classes, thus correlating the scientific and practical sides of the work. Examinations are held periodically, and the standing of the student is based upon the general character of her work throughout the year as well as upon results of examination.

THE HOURS OF DUTY

Hours on duty are arranged as follows: the day staff now has an eight hour day, with six hours on Sundays and holidays; the night staff is at present on continuous ten hours duty, though it is expected that this will be lowered to eight within the next few months. Rest and recreation hours are allowed so that the actual time a nurse spends on duty is approximately fifty hours per week. Each nurse is required to serve, during her three years, four terms of night duty of from four to six weeks each.

REQUIREMENTS FOR ADMISSION

Candidates must apply personally or by letter to the Principal of the Training School. Those applying by letter should enclose statements from their pastors testifying to their qualifications for undertaking professional work, and from their physicians certifying to sound health and unimpaired faculties. No candidate will be considered who is not in good physical condition. Applicants must be between the ages of eighteen and twenty-five years, of good physique and at least average height. They must furnish written evidence of at least three years high school work. Preference will be given to women with a preliminary training beyond this minimum requirement. The Principal of the Training School decides as to the qualification and fitness of the stu-

dent, and the propriety of retaining or dismissing her at the end of the term of probation. She may also terminate the connection of a student with the school at any time in case of misconduct, insubordination, inefficiency or neglect of duty.

Student nurses are not permitted to return home in order that they may nurse sick members of their family, as it is the opinion of the school authorities that they must only be permitted to nurse under careful supervision.

EXPENSES

Students receive board and lodging and a reasonable amount of laundry from the date of entrance. An allowance for the first year of \$70.00 and \$120.00 for each of the two succeeding years is made by the hospital, and the school equips the student with uniforms, after the probationary period. There are no tuition fees; but a charge will be made for breakage and damage to hospital property. Text-books are loaned the student, who may buy them from the school if she so desires. The ultimate purchase of the text-books is always advisable.

VACATIONS

Vacations are given between the beginning of June and the end of September. A period of two weeks is allowed each student yearly. In sickness all students are cared for without expense to them, but time lost through this, or any other cause, beyond stipulated limits, must be made up.

CLASSES

Classes are admitted in June and September.

FIRST YEAR—1924-1925

	First and Second Trimesters	Third Trimester
9—1	Gross Anatomy, Daily	Bacteriology, Daily, 9—12
12—1	Public Health Every Saturday—12-1 Throughout Year	
	First Trimester	Second Trimester
		Third Trimester
2:30 to 5:30	Histology and Embryology, Daily	Histology Tuesday and Thursday Chemistry Monday, Wednesday and Friday Chemistry Daily, except Saturday

SECOND YEAR—1924-1925
FIRST TRIMESTER

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9—10 10—11	Physiology	Physiology	Physiology	Physiology	Physiology	Physiology
11—12 12—1				Neurology	Neurology	Neurology
2:30—3 3—4 4—5	Pathology	Pathology	Pathology	Pathology	Pathology	

SECOND TRIMESTER

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9—10	Pharmacology	Pharmacology	Pharmacology	Pharmacology	Pharmacology	
10—11						
11—12	All Day	Pathology	Pathology	Pathology	Pathology	Pathology
12—1						
2:30 to 3:30		Pharmacology	Pharmacology	Gross Anatomy	Gross Anatomy	
3:30 to 5:30		Gross Anatomy	Gross Anatomy			

THIRD TRIMESTER

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9—10 10—11	Public Health		Public Health			Public Health
11—12	Immunology	Elective	Immunology	Elective	Elective	
12—1	Elective		Elective			Elem. Med. Clinic
3—4	Physical Diagnosis	Physical Diagnosis	Physical Diagnosis	Physical Diagnosis	Physical Diagnosis	
4—5:30		Surgery		Surgery		

ELECTIVE COURSES: 1. Topographical Anatomy—(limited to 10).

2. Advanced Work or Research in Anatomy, Physiology and Pharmacology, Physiological Chemistry and Pathology.

3. Clinical Bacteriology—(limited to 6).

4. Research in Surgery—(limited to 6).

5. Public Health Bacteriology.

Each student is required to elect a minimum of 10 hours a week.

THIRD YEAR—1924-1925
FIRST TRIMESTER

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9—10 10—11	Surgical Anatomy	Clinical Mic.	Clinical Mic.	Clinical Mic.	Clinical Mic.	Clinical Mic.
11—12	Medicine	Neurology	Medicine	Neurology	Surg. Quiz.	Medicine
12—1	Therapy	Obstetrics	Therapy	Obstetrics	Therapy	Obstetrics
3—4 4—5 5—6	Clinic Op. Surg. P.H.	Clinic P.H.	Clinic Op. Surgery P.H. Surgery	Clinic P.H.	Clinic Op. Surgery P.H. Surgery	Clinic P.H.

SECOND TRIMESTER

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9—10	Medicine	Obstetrics	Medicine	Obstetrics	Medicine	Obstetrics
10—11 11—12 12—1	Clin. Mic. and Public Health					
3—4 4—5	Clinic Op. Surgery P.H.	Clinic P.H.	Clinic Op. Surgery P.H.	Clinic P.H.	Clinic Op. Surgery P.H.	Clinic P.H.
5—6			Surgery		Surgery	

PATHOLOGY

THIRD TRIMESTER

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9—10	Pediatrics	Public Health	Pediatrics	Surgery Pathology	Pediatrics	Surgery
10—11	Orthopedics		Clinic		Orthopedics	Pathology
11—12	Medicine	Neurology	Medicine	Neurology	Surg. Quiz.	Medicine
12—1	Therapy	Obstetrics	Therapy	Obstetrics	Therapy	Obstetrics
3—5	Clinic Op. Surgery P.H.	Clinic P.H.	Clinic Op. Surgery P.H.	Clinic P.H.	Clinic Op. Surgery P.H.	Clinic P.H.
5—6			Surgery		Surgery	

FOURTH YEAR SURGICAL TRIMESTER—1924-1925

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9—10	SURGICAL OPERATIVE CLINIC					
10—11						
11—12	C. P. C.	Medical Clinic	Gynecology	Medicine One-Half Year	General Clinic	Medicine One-Half Year
12—1	Pediatrics	Gynecology	Pediatrics		Neurology	Obstetrics
OUT-PATIENT DEPARTMENT AND SPECIAL LECTURES						
2—3						
3—4	PEDIATRICS AND EAR, EYE, NOSE AND THROAT					
4—5						
	SURGICAL WEARD ROUNDS					
5—6	E., E., N., T.,	Dermatology	Surgery	Psychiatry	Surgery	Psychiatry U. S. V. B. Hospital 62

All Students: Twenty lectures on Ophthalmology—8 to 9 a. m., daily—First Trimester Sept. 20—Oct. 12.

FOURTH YEAR MEDICAL TRIMESTER

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9—10	Public Health School Clinics	MEDICAL WARD ROUNDS				
10—11						
11—12	C. P. C.	Medical Clinic	Neurology	Medicine One-Half Year	General Clinic	Medicine One-Half Year
12—1	Pediatrics	Gynecology	Pediatrics		Gynecology	Obstetrics

OUT-PATIENT DEPARTMENT AND SPECIAL LECTURES

2—3						
3—4	Dermatology	Syphilis	Elective	Dermatology	Syphilis	Psychiatry U. S. V. B. Hospital 62
4—5						
5—6	E., E., N., T.	Dermatology	Surgery	Psychiatry	Surgery	

All Students: Twenty lectures on Ophthalmology—8 to 9 a. m., daily. First Trimester Sept. 20—Oct. 12.

FOURTH YEAR "SPECIALTIES" TRIMESTER

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
9—10	Orthopedic Lecture or Ward Rounds	Elective	E., E., N., T. Operative Clinic	G. U. Operative Clinic	Elective	Orthopedic Clinic
10—11	X-Ray				X-Ray	Operative
11—12	C. P. C.	Medical Clinic	Neurology	One-Half Year Medicine	General Clinic	One-Half Year Medicine
12—1	Pediatrics	Gynecology	Pediatrics		Gynecology	Obstetrics

OUT-PATIENT DEPARTMENT AND SPECIAL LECTURES

2—3	Urology					
3—4	Gynecology and Urology—Half Trimester Each.					Psychiatry
5—6						U. S. V. B. Hospital 62
4—5	E., E., N., T.	Dermatology	Surgery	Psychiatry	Surgery	

All Students: Twenty lectures on Ophthalmology—8 to 9 a. m., daily—First Trimester Sept. 20—Oct. 12.

ELECTIVE COURSES:

1. Operative Surgery—Research.
2. Advanced Laboratory Methods.
3. Public Health.
4. Advanced or Research Work in Pre-Clinical Departments.



